

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--------------------------------|---|------------------|---------|---------------------|
| S1 | 2 | countercurrent ultrasonic wave | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:36 |
| S2 | 2667 | 210/748.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:38 |
| S3 | 2 | Gou, shequan.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:39 |
| S4 | 2 | da, jianwen.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:39 |
| S5 | 2 | zhang, yougui.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:40 |
| S6 | 181 | han, ping.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:40 |
| S7 | 2 | zhang, jingyi.in. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:40 |
| S8 | 254 | 516/113.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:41 |
| S9 | 676994 | (ultrasonic or transducer) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:44 |

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|-----|-------|--|---|-----|----|---------------------|
| S10 | 2 | S6 and S9 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:45 |
| S11 | 2 | S8 and S9 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:45 |
| S12 | 458 | S2 and S9 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:45 |
| S13 | 0 | S12 and ultrasonid transducer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:57 |
| S14 | 89 | S12 and ultrasonic transducer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:57 |
| S15 | 4 | S14 and (concurrent or countercurrent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 11:58 |
| S16 | 21 | 210/728.ccls. and (concurrent or countercurrent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:03 |
| S17 | 47373 | oil and water emulsion | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:04 |
| S18 | 47373 | oil and water emulsion | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:04 |
| S19 | 1164 | S18 and transducer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:04 |

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| S20 | 114 | S19 and (concurrent or countercurrent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:05 |
| S21 | 27 | S20 and ultrasonic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:05 |
| S22 | 41845 | (oil with water emulsion) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:07 |
| S23 | 1054 | S22 and transducer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:08 |
| S24 | 346 | S23 and ultrasonic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:08 |
| S25 | 27 | S24 and (concurrent or countercurrent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/05 12:08 |
| S26 | 1 | "5225089".PN. | USPAT; USOCR | ADJ | ON | 2008/12/05 12:47 |
| S27 | 33 | ("4055491" "4280823" "4398925" "4523682" "4673512" "4759775").PN. OR ("5225089").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/12/05 12:48 |
| S28 | 45 | ("4055491" "4280823" "4393708" "4475921" "4523682" "4549435" "4573356" "4736815" "4743361" "4877516" "4890268" "5006266" "5036944" "5060651" "5085783" "5091893" "5147562" "5164094" "5192450" "5225089" "5257676" | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/12/06 17:45 |

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| | | "5329496" "5419877" "5460181" "5484537" "5527460" "5831166" "5902489" "6029518" "Re33524").PN. OR ("6216538").URPN. | | | | |
| S29 | 14 | ("6055859").URPN. | USPAT | ADJ | ON | 2008/12/06 18:28 |
| S30 | 9 | ("5688405").URPN. | USPAT | ADJ | ON | 2008/12/06 19:05 |
| S31 | 16 | "5951456" | USPAT | ADJ | ON | 2008/12/06 19:41 |
| S32 | 15 | ("5951456").URPN. | USPAT | ADJ | ON | 2008/12/06 19:49 |
| S33 | 0 | ("6065949").URPN. | USPAT | ADJ | ON | 2008/12/06 19:50 |
| S34 | 66 | 516/195.ccls. | USPAT | ADJ | ON | 2008/12/06 20:01 |
| S35 | 0 | 252/349.ccls. | USPAT | ADJ | ON | 2008/12/06 20:07 |
| S36 | 0 | 252/796.ccls. | USPAT | ADJ | ON | 2008/12/06 20:07 |
| S37 | 100 | 204/157.42.ccls. | USPAT | ADJ | ON | 2008/12/06 20:08 |
| S38 | 1 | ("5717181").URPN. | USPAT | ADJ | ON | 2008/12/06 20:14 |
| S39 | 0 | "157". "62".ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 21:05 |
| S40 | 0 | 157/62.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 21:05 |
| S41 | 209 | 204/157.62.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 21:06 |
| S42 | 11 | optical scissors | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 21:24 |

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| S43 | 1052 | optical tweezers | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 21:30 |
| S44 | 27369 | ultrasonic transducer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 21:44 |
| S45 | 8647 | S44 and water | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 21:44 |
| S46 | 2218 | S45 and oil | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 21:44 |
| S47 | 1399 | demulsify | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 22:11 |
| S48 | 12 | S47 and ultrasonic | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2008/12/06 22:11 |
| S49 | 0 | countercurrent ultrasonic wave | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 11:41 |
| S50 | 2 | countercurrent ultrasonic wave | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 11:41 |
| S51 | 15 | ("1865433" "2417722" "3264213" "3458140" "3672823" "3686115" "3772188" "3807563" "3886064").PN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/05/13 12:07 |
| S52 | 25 | ("4003832").URPN. | USPAT | ADJ | ON | 2009/05/13 12:29 |
| S53 | 0 | "10569967" | USPAT | ADJ | ON | 2009/05/13 13:02 |

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| S54 | 0 | "10/569967" | USPAT | ADJ | ON | 2009/05/13 13:02 |
| S55 | 0 | "10569967" | USPAT | ADJ | ON | 2009/05/13 13:03 |
| S56 | 8373 | transducer and (concurrent or countercurrent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:30 |
| S57 | 1886 | S56 and oil and water | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:31 |
| S58 | 54 | S57 and ultra\$sonic wave | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:32 |
| S59 | 47 | S58 and concurrent | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:35 |
| S60 | 118 | transducer and (concurrent and countercurrent) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:36 |
| S61 | 1 | S60 and S58 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:37 |
| S62 | 2726 | 210/748.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:43 |
| S63 | 0 | 210/2968D.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:43 |
| S64 | 0 | 210/2968.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:43 |

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| S65 | 255 | 516/113.ccls. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:57 |
| S66 | 1 | S65 and transducer | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 13:57 |
| S67 | 19 | "5951456" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 14:08 |
| S68 | 0 | ("6065949").URPN. | USPAT | ADJ | ON | 2009/05/13 14:20 |
| S69 | 15 | ("5951456").URPN. | USPAT | ADJ | ON | 2009/05/13 14:21 |
| S70 | 622 | 425/4R.ccls. | USPAT | ADJ | ON | 2009/05/13 14:30 |
| S71 | 18 | S70 and transducer | USPAT | ADJ | ON | 2009/05/13 14:30 |
| S72 | 4521 | oil and emulsion and transducer | USPAT | ADJ | ON | 2009/05/13 14:33 |
| S73 | 310 | S72 and ultrasonic wave | USPAT | ADJ | ON | 2009/05/13 14:33 |
| S74 | 38 | ("2714186" "3169013" "3176964" "3301535").PN. OR ("3614069").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/05/13 14:35 |
| S75 | 39 | ("4120699").URPN. | USPAT | ADJ | ON | 2009/05/13 14:39 |
| S76 | 27 | electrostatic desalting | USPAT | ADJ | ON | 2009/05/13 15:22 |
| S77 | 1289 | transducer and "210"/\$. ccls. | USPAT | ADJ | ON | 2009/05/13 21:26 |
| S78 | 67 | S77 and standing wave | USPAT | ADJ | ON | 2009/05/13 21:28 |
| S79 | 34 | ("5085783").URPN. | USPAT | ADJ | ON | 2009/05/13 21:55 |
| S80 | 6 | "5085783".pn. or "4743361".pn. or "5147562".pn. | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 22:13 |

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| S81 | 2 | S80 and (oil or water) | US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT | ADJ | ON | 2009/05/13 22:13 |
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